OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC323068

CYP24A1 (NM_001128915) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: CYP24A1 (NM_001128915) Human Untagged Clone

Tag: Tag Free

Symbol: CYP24A1

Synonyms: CP24; CYP24; HCAI; HCINF1; P450-CC24

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001128915, the custom clone sequence may differ by one or more nucleotides
ATGAGCTCCCCCATCAGCAAGAGCCGCTCGCTTGCCGCCTTCCTGCAGCAGCTGCGCAGT
CCGAGGCAGCCCCCGAGACTGGTGACATCTACGGCGTACACGTCCCCTCAGCCGCGAGAG
GTGCCAGTCTGCCCGCTGACAGCTGGTGGCGAGACTCAGAACGCGGCCGCCCTGCCGGGC
CCCACCAGCTGGCCACTGCTGGGCAGCCTGCTGCAGATTCTCTGGAAAGGGGGTCTCAAG
AAACAGCACGACACCCTGGTGGAGTACCACAAGAAGTATGGCAAGATTTTCCGCATGAAG
TTGGGTTCCTTTGAGTCGGTGCACCTGGGCTCGCCATGCCTGCTGGAAGCGCTGTACCGC
ACCGAGAGCGCGTACCCGCAGCGGCTGGAGATCAAACCGTGGAAGGCCTATCGCGACTAC
CGCAAAGAAGGCTACGGGCTGCTGATCCTGGAAGGGGAAGACTGGCAGCGGGTCCGGAGT
GCCTTTCAAAAGAAACTAATGAAACCAGGGGAAGTGATGAAGCTGGACAACAAAATCAAT
GAGGTCTTGGCCGATTTTATGGGCAGAATAGATGAGCTCTGTGATGAAAGAGGCCACGTT
GAAGACTTGTACAGCGAACTGAACAAATGGTCGTTTGAAAGTATCTGCCTCGTGTTGTAT
GAGAAGAGATTTGGGCTTCTCCAGAAGAATGCAGGGGATGAAGCTGTGAACTTCATCATG
GCCATCAAAACAATGATGAGCACGTTTGGGAGGATGATGGTCACTCCAGTCGAGCTGCAC
AAGAGCCTCAACACCAAGGTCTGGCAGGACCACACTCTGGCCTGGGACACCATTTTCAAA
TCAGTCAAAGCTTGTATCGACAACCGGTTAGAGAAGTATTCTCAGCAGCCTAGTGCAGAT
TTCCTTTGTGACATTTATCACCAGAATCGGCTTTCAAAGAAAGAATTGTATGCTGCTGTC
ACAGAGCTCCAGCTGGCTGCGGTGGAAACGACAGCAAACAGTCTAATGTGGATTCTCTAC
AATTTATCCCGTAATCCCCAAGTGCAACAAAAGCTTCTTAAGGAAATTCAAAGTGTATTA
CCTGAGAATCAGGTGCCACGGGCAGAAGATTTGAGGAATATGCCGTATTTAAAAGCCTGT
CTGAAAGAATCTATGAGGCTTACGCCGAGTGTACCATTTACAACTCGGACTCTTGACAAG
GCAACAGTTCTGGGTGAATATGCTTTACCCAAAGGAATTGTCCGCAAATACGACATCCAG
GCCACAGACAATGAGCCTGTTGAGATGCTACACTCAGGCACCCTGGTGCCCAGCCGGGAA
CTCCCCATCGCGTTTTGCCAGCGA

Restriction Sites: Please inquire

ACCN: NM_001128915

View online »

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001128915.1, NP_001122387.1
RefSeq Size:	3089 bp
RefSeq ORF:	1347 bp
Locus ID:	1591
UniProt ID:	Q07973
Cytogenetics:	20q13.2
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This mitochondrial protein initiates the degradation of 1,25-dihydroxyvitamin D3, the physiologically active form of vitamin D3, by hydroxylation of the side chain. In regulating the level of vitamin D3, this enzyme plays a role in calcium homeostasis and the vitamin D endocrine system. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) lacks a coding exon in the 3' region, but the reading frame is not changed, as compared to variant 1. The resulting isoform (2) lacks an internal segment, as compared to isoform 1.